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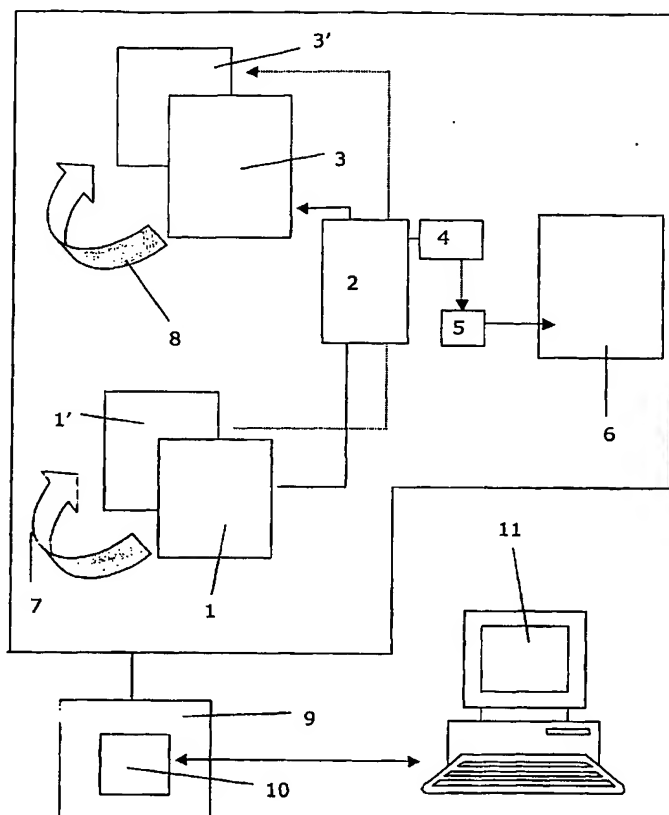
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(54) Title: METHOD OF TOMOGRAPHIC IMAGING



(57) Abstract: The invention relates to a method of tomographic imaging, and in particular a CT or MR method, for the repetitive production of diagnostic slice images of a part of a patient's body. To allow a geometrical transformation (2) to be determined, current reference slice images (1) of the part of the body, which are brought into agreement with earlier reference slice images (3) of the part of the body are first made in this case. Current imaging parameters (5) are then calculated for a current diagnostic slice image (6) by transforming earlier imaging parameters by the geometrical transformation (2) previously determined. To give greater accuracy and, at the same time, a short image-making time, the image proposes that at least two current reference slice images (1, 1') be made, whose image planes are preset in such a way that their relative positions and orientations in three dimensions agree with the relative positions and orientations in three dimensions of the earlier reference slice images (3, 3'), the geometrical transformation (2) being determined in such a way that it brings all the current reference slice images (1, 1') in agreement with the corresponding earlier reference slice images (3, 3') simultaneously.



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